| ZINC - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---------------------------------------|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Zinc | 45.36 | 19.88 | 16 | 36.04 | 13.68 | 9 | |

Calculated Difference = 9.32

Standard Error of the Difference = 6.477819531

Degree of Freedom = 23

t = 1.438755735

0.0818

| 4,4'-DDT - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| 4,4'-DDT | 0.00041103 | 0.0007962 | 17 | 0.0001555 | 0.00015569 | 9 | |

Calculated Difference = 0.00025553 Standard Error of the Difference = 0.000199284

> Degree of Freedom = 24

> > t = 1.28223903

p = 0.106

| ALUMINUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Aluminum | 6854 | 2346 | 16 | 12213 | 6892 | 9 | |

Calculated Difference = 5359
Standard Error of the Difference = 2252.49071

Degree of Freedom = 23

t = 2.379144107

p = 0.013 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

| ANTIMONY - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|-------|--------------------|---------|------------|--------------------|---------|--|
| Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Background | | | | | | | |
| · | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Antimony | 2.245 | 1.751 | 16 | 4.023 | 2.215 | 9 | |

Calculated Difference = 1.778

Standard Error of the Difference = 0.819130942

Degree of Freedom = 23

t = 2.170593136

p = 0.0203 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

| ARSENIC - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Arsenic | 4.026 | 1.4 | 16 | 5.813 | 3.107 | 9 | |

Calculated Difference = 1.787

Standard Error of the Difference = 1.039537887

Degree of Freedom = 23

t = 1.719033066

p = 0.0495 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = Yes site soil mean is statistically less than background mean

| BARIUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Barium | 215.3 | 59.65 | 16 | 209.7 | 47.73 | 9 | |

Calculated Difference = 5.6

Standard Error of the Difference = 20.90733397

Degree of Freedom = 23

t = 0.267848594

0.3956 p =

| BENZO(B)FLUORANTHENE - INTRACOASTAL WATERWAY SEDIMENT | | | | | | |
|---|------|--------------------|---------|------------|--------------------|---------|
| Compound Site Conc. Site Conc. Number of Site Background Background Conc. Number of Bac | | | | | | |
| • | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples |
| Benzo(b)fluoranthene | 0.1 | 0.157 | 16 | 0.0087 | 0.0106 | 9 |

Calculated Difference = 0.0913 Standard Error of the Difference = 0.038225347

> Degree of Freedom = 23

> > t = 2.388467508

p = 0.5

| BERYLLIUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| - Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Beryllium | 0.463 | 0.149 | 16 | 0.766 | 0.403 | 9 | |

Calculated Difference = 0.303

Standard Error of the Difference = 0.13246449

Degree of Freedom = 23

t = 2.287405473

0.0159 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = site soil mean is statistically less than background mean Yes

| BORON - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Boron | 12.04 | 9.92 | 16 | 27.64 | 12.82 | 9 | |

Calculated Difference = 15.6 Standard Error of the Difference = 4.714218044

Degree of Freedom = 23

t = 3.30913841

0.0015 calculated at www.stat.tamu.edu/~west/applets/tdemo.html p =

Data sets significantly different = site soil mean is statistically less than background mean Yes

| COBALT - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| oompound. | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Cobalt | 4.385 | 1.131 | 16 | 6.698 | 3.165 | 9 | |

Calculated Difference = 2.313

Standard Error of the Difference = 1.037770333

Degree of Freedom = 23

t = 2.228816845

0.0179 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = site soil mean is statistically less than background mean Yes

| COPPER - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Jompouna | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Copper | 7.112 | 2.997 | 16 | 8.138 | 5.165 | 9 | |

Calculated Difference = 1.026

Standard Error of the Difference = 1.787757246

Degree of Freedom = 23

t = 0.573903421

0.2858 p =

calculated at www.stat.tamu.edu/~west/applets/tdemo.html Data sets significantly different = site soil mean is not statistically less than background mean No

| IRON - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---------------------------------------|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| Compound | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Iron | 13352 | 5546 | 16 | 16496 | 8097 | 9 | |

Calculated Difference = 3144

Standard Error of the Difference = 2892.307356

Degree of Freedom = 23

t = 1.087021403

p = 0.1441 calculated at www.stat.tamu.edu/~west/applets/tdemo.html

Data sets significantly different = No site soil mean is not statistically less than background mean

| LEAD - INTRACOASTAL WATERWAY SEDIMENT | | | | | | |
|---------------------------------------|------------|--------------------|----------------|------------|--------------------|----------------------|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples |
| Lead | 11.56 | 7.161 | 16 | 9.587 | 3.602 | 9 |

Calculated Difference = 1.973

Standard Error of the Difference = 2.076994545

Degree of Freedom = 23

t = 0.949930275

p = 0.1760

| LITHIUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Lithium | 10.53 | 3.559 | 16 | 21.4 | 14.41 | 9 | |

Calculated Difference = 10.87

Standard Error of the Difference = 4.637876359

Degree of Freedom = 23

t = 2.343745102

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is statistically less than background mean 0.0141

Data sets significantly different = Yes

| MANGANESE - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Manganese | 283.3 | 87.59 | 16 | 330.7 | 88.99 | 9 | |

Calculated Difference = 47.4

Standard Error of the Difference = 35.25927685

Degree of Freedom = 23

t = 1.34432706

0.0960

| MERCURY - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Mercury | 0.0201 | 0.0073 | 16 | 0.0176 | 0.0132 | 9 | |

Calculated Difference = 0.0025

Standard Error of the Difference = 0.004534171

Degree of Freedom = 23

t = 0.551368717

0.5000

| MOLYBDENUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Molybdenum | 0.667 | 1.358 | 16 | 0.241 | 0.0675 | 9 | |

Calculated Difference = 0.426

Standard Error of the Difference = 0.330054329

Degree of Freedom = 23

t = 1.290696598

0.1048

| NICKEL - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Nickel | 9.589 | 2.741 | 16 | 14.91 | 8.111 | 9 | |

Calculated Difference = 5.321

Standard Error of the Difference = 2.649675082

Degree of Freedom = 23

t = 2.008170751

calculated at www.stat.tamu.edu/~west/applets/tdemo.html site soil mean is not statistically less than background mean 0.5000

Data sets significantly different = No

| STRONTIUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|--|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Strontium | 44.86 | 14.43 | 16 | 59.17 | 22.06 | 9 | |

Calculated Difference = 14.31

Standard Error of the Difference = 7.804670623

Degree of Freedom = 23

t = 1.833517478

0.0398

| TITANIUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Titanium | 25.58 | 5.051 | 16 | 31.79 | 10.49 | 9 | |

Calculated Difference = 6.21

Standard Error of the Difference = 3.536205768

Degree of Freedom = 23

t = 1.756119527

0.0462

| VANADIUM - INTRACOASTAL WATERWAY SEDIMENT | | | | | | | |
|---|------------|--------------------|----------------|------------|--------------------|----------------------|--|
| Compound | Site Conc. | Site Conc. | Number of Site | Background | Background Conc. | Number of Background | |
| | Mean | Standard Deviation | Samples | Conc. Mean | Standard Deviation | Samples | |
| Vanadium | 13.86 | 3.523 | 16 | 20.21 | 9.135 | 9 | |

Calculated Difference = 6.35

Standard Error of the Difference = 3.012459534

Degree of Freedom = 23

t = 2.107912133

0.0231